

**ASUS<sup>®</sup> 3DexPlover<sup>®</sup> 3000**

**AGP-V3000 Graphics Card**

**USER'S MANUAL**

**Hardware & Video Drivers**

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Product Name:	<b>ASUS AGP-V3000</b>
Manual Revision:	<b>1.01</b>
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# FCC & DOC COMPLIANCE

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## ***Federal Communications Commission Statement***

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING!** The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

## ***Canadian Department of Communications Statement***

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

# I. Introduction

---

Thank you for purchasing the ASUS AGP-V3000 Graphics & Video Accelerator. With the SGS-THOMSON RIVA 128™ built in, the ASUS AGP-V3000 provides you with fast acceleration in both 2D/3D graphics and high quality scalable video playback, which can fully support 3D Gaming and Multimedia Applications.

## Item Checklist

- ASUS AGP-V3000
- This User's Manual
- ASUS Driver & Utility CD

## Key Benefits

- Supports professional graphics design, gaming, learning, and business applications
- Flicker free, high refresh rates reduce eye strain
- Powerful 3D rendering
- Crisp, realistic images
- Striking cinema-quality video

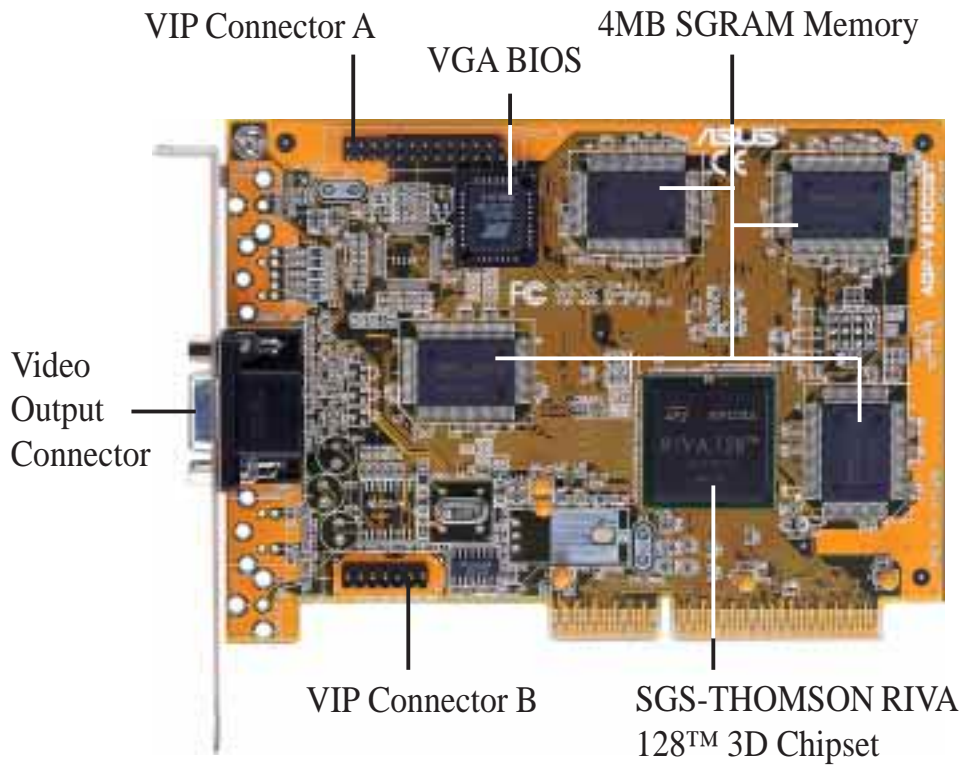
## Features

- Built-in SGS-THOMSON RIVA 128™ 128-bit 3D Multimedia Accelerator
- User-friendly Installation for Windows 95 and Windows 3.x.
- Built-in VIP Bus Connectors for TV Tuner, Video Capture, MPEG-1, and MPEG-II
- Acceleration for Windows 95 APIs, including Direct3D and DirectDraw (+ VPE)
- Acceleration for Windows NT APIs, including Direct3D, and DirectDraw
- Massive array of floating point Geometry Processing Units
- 128-bit 2D/GUI/DirectDraw Acceleration
- Video Acceleration (including acceleration for MPEG-I, MPEG-II, and Indeo)
- X and Y up and down video scaling
- 206MHz Palette-DAC
- AGP 1.0 Interface
- 4MB 128-bit 100MHz SGRAM frame buffer interface with 1.6GB/s bus bandwidth
- Excellent performance at high resolutions and color depths

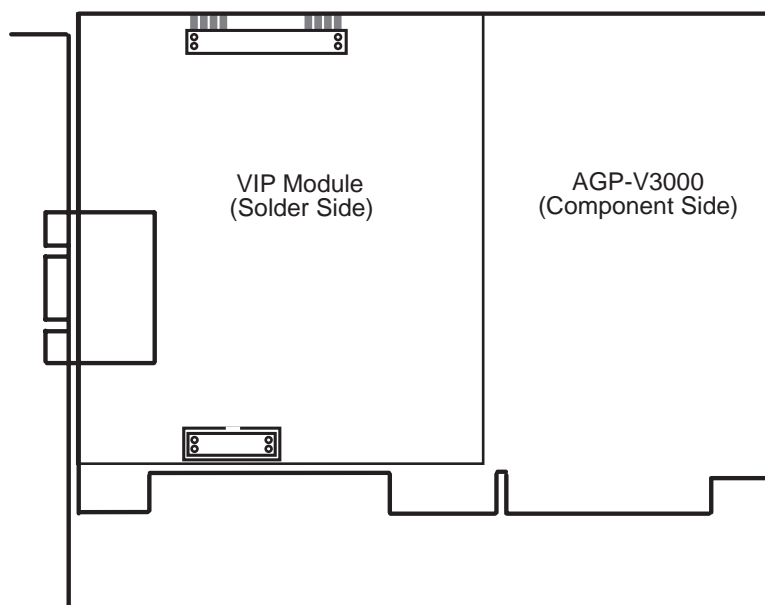
## II. Hardware Installation

### ASUS AGP-V3000 Layout

II. Installation  
Layout



### ASUS AGP-V3000 with VIP Module Example





## II. Hardware Installation

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This section tells you how to install the ASUS AGP-V3000 graphics card in your PC computer.

**NOTE:** The ASUS AGP-V3000 graphics card can only be installed in motherboards with an AGP slot.

**WARNING!** Computer boards and components contain very delicate Integrated Circuit (IC) chips. To protect the computer board and other components against damage from static electricity, you must follow some precautions.

1. Make sure that you unplug your power supply when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both your motherboard and expansion cards.
2. Keep all components such as the host adapter in its antistatic bag until you are ready to install it.
3. Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case. Hold components by the edges and try not to touch the IC chips, leads, or circuitry.
4. Place components on a grounded antistatic pad or on the bag that came with the component whenever the components are separated from the system.

# II. Hardware Installation

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## Installation Procedures

### *New Systems*

1. Unplug all electrical cords on your computer.
2. Remove the system unit cover.
3. Locate the AGP bus expansion slot. Make sure this slot is unobstructed.
4. Remove the corresponding expansion slot cover from the computer chassis.
5. Ground yourself to an antistatic mat or other grounded source (see **WARNING!**).
6. Pick up the board (still in its sleeve) by grasping the edge bracket with one hand and then remove the plastic sleeve.
7. Position the card directly over the AGP slot and insert one end of the board in the slot first. Firmly but gently press the bus connector on the bottom of the card down into the slot. Be sure the metal contacts on the bottom of the host adapter are securely seated in the slot.
8. Anchor the board's mounting bracket to the computer chassis using the screw from the slot cover that you set aside previously.
9. Replace the cover on the system unit.
10. Connect your analog monitor's 15-pin VGA connector to the card and fasten the retaining screws (if any).
11. Connect other cables and devices if available - You are now ready to install the software drivers and utilities.

### *Systems with Existing VGA Card*

1. Install the ASUS AGP-V3000 display drivers with your current VGA card.
2. Shut down your computer and unplug all electrical cords.
3. Replace the existing VGA card with the ASUS AGP-V3000 graphics card.
4. Restart your computer — the ASUS AGP-V3000 graphics card should be automatically detected and the display drivers automatically updated.

## III. Windows 95

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### Operating System Requirements

#### Windows 95 and Windows 95 OSR2.0/2.1

Both Windows 95 and Windows 95 OSR2.0 support AGP cards, but to use all of the AGP features, you must use Win95 OSR 2.1 or later.

To install Win95 OSR2.1, first install OSR2.0 and then upgrade to OSR2.1 with a USB upgrade. On the April 1997 MSDN Disc-1 “Windows 95, SDKs, and Tools”, OSR2.0 is found in “\OSR2” while the USB upgrade is found in “\OSR2\USBUPP”. To determine the installed version of the operating system, look in the registry at:

HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Version  
HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\VersionNumber

OSR2.1 has Version “Windows 95” and VersionNumber “4.03.1212” or “4.03.1214”.

#### Installation in Windows Memphis Beta1/Beta2

For Windows Memphis Beta1 and Beta2 users, run D:\WIN95\SETUP.EXE manually. Do not install the display drivers from the autorun screen.

# III. Windows 95

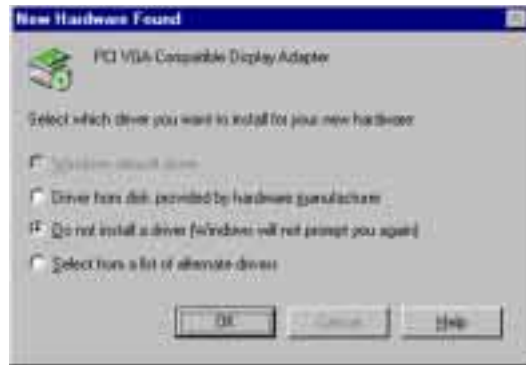
## 1. Installing for an Installed ASUS AGP-V3000

“New hardware found” refers to the prompt for drivers when installing Windows 95 with the ASUS AGP-V3000 VGA card already installed. This Manual assumes that your CD-ROM disc drive is drive **D:** and that Windows 95 is in **C:\windows**. Replace either with the actual location, if necessary.

### 1.1 Windows 95

When installing Windows 95, a **New Hardware Found** window will appear:

Select **Do not install a driver** and follow the steps on the next page.



### 1.2 Win95 OSR 2.0/2.1

When installing Windows 95 OSR 2.0/2.1, the **Update Device Driver Wizard** window will appear:

This wizard will complete the installation of the Standard PCI Graphics Adapter (VGA). Click **Next >** to let Windows search for an updated driver.



**WARNING!** Only click **Next >**. The system will hang if you click **Cancel!**

Click **Finish** to install the VGA driver. You will then be asked for your Windows95 CD in order to complete the VGA driver installation. If you do not have your CD handy, direct the installation path to your **\Windows\System** directory. Windows will prompt you to restart your windows. Choose “**No**” and follow the steps on the next page.



# III. Windows 95

Insert the ASUS AGP-V3000 V1.00 Installation CD disc with your current VGA card. The ASUS Windows 95 Install Shell will appear. If it does not appear, run **D:\setup.exe**. You will be presented with a list of install options.

Click **Install AGP-V3000 Display Driver** and follow the installation steps.

The **Setup program** window appears.

Click **Next >** to install AGP-V3000 V1.00 display drivers on your computer.

The **Features** window will be displayed.

Click **Next >** to continue with the **Setup program**.

The **Check Setup Information** window will appear.

Click **Next >** to begin the file transfer.

The **Installing Microsoft DirectX 5** dialog box will automatically appear because the AGP-V3000 display driver requires DirectX 5 to have access to the advanced 3D features.

This box indicates that the **Setup program** is searching for the updated DirectX Runtime Components and updating as necessary.



# III. Windows 95

## 2. Replacing an Existing VGA Card

1. If wish to replace an existing VGA card with the ASUS AGP-V3000 graphics card, the current display drivers must be replaced first. To replace, insert the ASUS AGP-V3000 V1.00 Installation CD disc. The ASUS Windows 95 Install Shell will appear. If it does not appear, run **D:\setup.exe**. You will be presented with a list of install options.
2. Click **Install AGP-V3000 Display Driver** and follow the installation steps.

The **Setup program** window appears.

Click **Next >** to install the AGP-V3000 V1.00 display drivers on your computer.

The **Features** window will be displayed.

Click **Next >** to continue with the **Setup program**.

The **Check Setup Information** window will appear.

Click **Next >** to begin the file transfer.

The **Installing Microsoft DirectX 5** dialog box will automatically appear because the AGP-V3000 display driver requires DirectX 5 to have access to the advanced 3D features.

This box indicates that the **Setup program** is searching for the updated DirectX Runtime Components and updating as necessary.

After all drivers are installed, power off your system and replace your VGA card with the ASUS

AGP-V3000. Restart your computer and the drivers should be installed automatically.



# III. Windows 95

## 3. Video Driver Uninstallation

If you want to install other graphics cards or if you no longer need the AGP-V3000 display drivers, you can use one of the following procedures to completely uninstall the drivers from Windows 95 to save disk space.

### 3.1 Using the Autorun Screen

1. Insert the ASUS AGP-V3000 V1.00 Installation CD.
2. Select **Remove AGP-V3000 Display Driver** in the ASUS Windows 95 Install Shell and follow the uninstallation steps.



### 3.2 Using the Windows 95 Control Panel

1. Click **Start**, and then point to **Settings**.
2. Click **Control Panel**.
3. Double-click the **Add/Remove Programs** icon.
2. Click the **Install/Uninstall** tab.
3. Select **ASUS AGP-V3000 V1.00** from the list.
4. Click **Add/Remove**.



During uninstallation, a “**Remove Shared File?**” dialog box will display asking you to remove some shared files. Click the **Yes** or **Yes To All** button to remove the shared files that are no longer used.



# III. Windows 95

## 4. DirectX 5 Installation

For Software MPEG support in Windows 95, you must first install the **Microsoft DirectX 5** libraries, then you may install your own MPEG Video Player.

**NOTE:** ASUS does not provide an MPEG Video Player.

1. Start Windows 95.
2. Insert the ASUS AGP-V3000 V1.00 Installation CD into your CD-ROM disc drive. The ASUS Windows 95 Install Shell should appear. If it does not appear, run **D:\setup.exe**.



3. Select **Install DirectX 5** in the ASUS Windows 95 Install Shell. The following screen will appear. Check “Direct 3D Hardware Acceleration Enabled” option and then click the “ReInstall DirectX” button.





# IV. Microsoft Windows NT

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## **IMPORTANT!**

- Windows NT 3.5x does not support AGP cards.
- Before installing the ASUS AGP-V3000 display driver in Windows NT 4.0, make sure that you have installed **Windows NT 4.0 Service Pack version 3.0** (available on the Internet at [http://www.microsoft.com/isapi/support/bldqpage.idc?ProductPage=q\\_servpk](http://www.microsoft.com/isapi/support/bldqpage.idc?ProductPage=q_servpk)). Otherwise, the system will hang and will not be able to start up!
- For all the AGP features to be available you must be using Windows NT 5.0 (available in the future)

## *Installation Procedures*

1. Start Windows NT, switch display properties to VGA mode (16 colors, 640 x 480 pixels), then restart your computer to make the change.
2. After your computer restarts, right-click the desktop and click **Properties**.
3. Click the **Settings** tab.
4. Select **Change Display Type**.
5. Select **Adapter Type** and click **Change**.
6. Click **Have Disk**.
7. Insert the ASUS AGP-V3000 Installation CD.
8. Type **D:\NT40** (assuming your CD-ROM disc drive is in drive D) or click **Browse** to select the path of the display driver for Windows NT. Click **OK**.
9. You will see a list of ASUS AGP-V3000 drivers. Select **ASUS AGP-V3000** and then click **OK**.
10. Windows NT will once again prompt for confirmation. All appropriate files are then copied to the hard disk. When all files are copied, go back to the **Display Properties** box by clicking **Close**. Click **Apply**.
11. The **System Settings Change** dialog box is displayed. Click **Yes** to restart Windows.
12. Windows NT will restart with the default settings. The Display applet will appear to allow for mode selection.

# V. Windows 3.x

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This Manual assumes that you have already installed the ASUS AGP-V3000 graphics & video card and your CD-ROM disc drive is drive **D:** and that the Windows 3.x directory is in **C:\windows**. Replace these with the actual location, if necessary. The ASUS AGP-V3000 Video drivers for Windows 3.x can be installed under DOS mode or Windows 3.x.

## 1.1. Installation Procedures in DOS

1. Start your computer and enter DOS mode.
2. Type D: and change to the \WIN31 directory.
3. Type install and the install screen will appear.



4. Type **c:\windows** or the path to your Windows 3.x directory.
5. The installation program will install the appropriate language support into Windows.
6. When completed, keep your ASUS driver CD in your CD-ROM disc drive and launch Windows 3.x.
7. The ASUS Video installation screen will appear. You may select other items to install.

# V. Windows 3.x

## 1.2. Installation Procedures in Windows 3.x

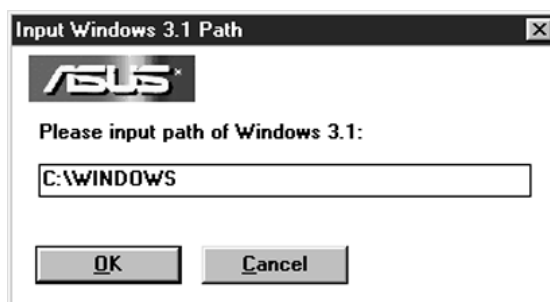
1. Start your computer in DOS mode.
2. Change to your Windows 3.x directory.
3. Type SETUP. The **System Information** screen will appear.

```
System Information
Computer:      MS-DOS System
Display:       VGA
Mouse:         Microsoft, or IBM PS/2
Keyboard:      Enhanced 101 or 102 key US and Non US keyboards
Keyboard Layout: US
Language:      US
Codepage:      English (437)
Network:       No Network Installed
```

4. Go to the **Display** section and then select **VGA**. Switch to the standard VGA mode (16 colors, 640 x 480 pixels), then start Windows by typing WIN.
5. Insert the ASUS AGP-V3000 V1.00 Installation CD and run **D:\setup.exe**. A list of install options will appear.



6. Click **Install Windows 3.x Display Driver** and follow the installation steps.
7. Enter your Windows 3.x directory path. Click the Ok button to complete the driver installation.



# V. Windows 3.x

## 1.3. Installation of Video for Windows

For Software MPEG support in Windows 3.x, you must first install **Microsoft Video for Windows**, then you may install your own **MPEG Video Player**.

**NOTE:** ASUS does not provide an MPEG Video Player.

1. Start Windows 3.x.
2. Insert the ASUS AGP-V3000 Installation CD.
3. Run **D:\setup.exe**. A list of install options will appear.



4. Click **Install Win32s Runtime Library**.

**NOTE:** Part of the driver's code is written with 32bit API, which will need the **Win32s Runtime Library** to be executable. It is recommended that you install **Win32s Runtime Library** once you have installed the Windows 3.x driver.

5. Click **Install Video for Windows** if you have not installed Video for Windows.

**NOTE:** You must install **Win32S Runtime Library** first. Otherwise, the DCI driver of Video for Windows will not be enabled.



# VI. Display Information

## Resolution Table

### 4MB Video Memory

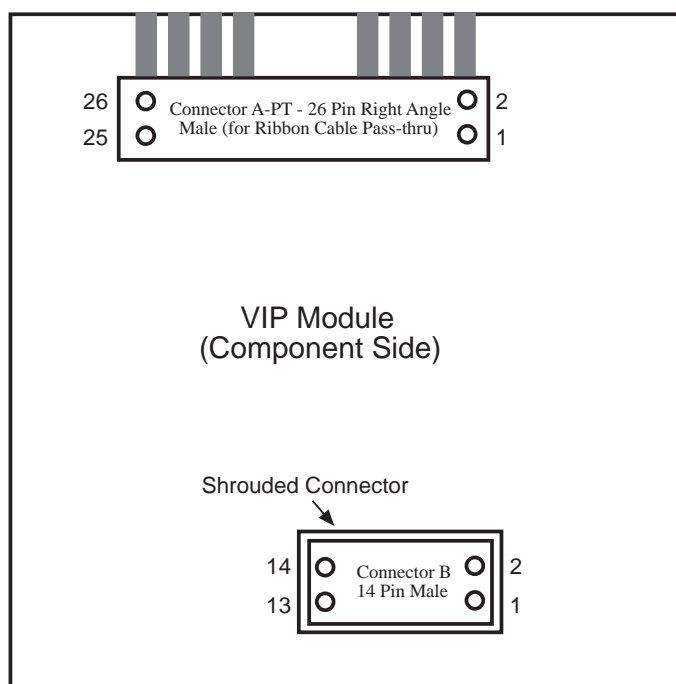
Resolution	Vertical Frequency	Horizontal Frequency	Color Depth		
			8bpp = 256 colors Standard	16bpp = 65K colors High Color	32bpp = True Color
640 x 480	60Hz	31.4KHz	✓	✓	✓
	72Hz	36.1KHz	✓	✓	✓
	75Hz	37.6KHz	✓	✓	✓
	85Hz	43.0KHz	✓	✓	✓
	100Hz	50.9KHz	✓	✓	✓
	120Hz	61.8KHz	✓	✓	✓
	800 x 600	60Hz	37.9KHz	✓	✓
72Hz		45.1KHz	✓	✓	✓
75Hz		47.1KHz	✓	✓	✓
85Hz		53.5KHz	✓	✓	✓
100Hz		63.6KHz	✓	✓	✓
120Hz		77.3KHz	✓	✓	✓
1024 x 768		60Hz	48.4KHz	✓	✓
	72Hz	57.6KHz	✓	✓	✓
	75Hz	60.2KHz	✓	✓	✓
	85Hz	68.7KHz	✓	✓	✓
	100Hz	81.9KHz	✓	✓	✓
1152 x 864	60Hz	53.6KHz	✓	✓	✓
	72Hz	64.9KHz	✓	✓	✓
	75Hz	67.7KHz	✓	✓	✓
	85Hz	77.2KHz	✓	✓	✓
	100Hz	91.4KHz	✓	✓	✓
1280 x 1024	60Hz	64.0KHz	✓	✓	✓
	72Hz	77.0KHz	✓	✓	✓
	75Hz	80.4KHz	✓	✓	✓
	85Hz	91.2KHz	✓	✓	✓
1600 x 1200	60Hz	74.9KHz	✓	✓	
	72Hz	89.9KHz	✓	✓	
	75Hz	93.8KHz	✓	✓	

# VII. Hardware Information

## VIP Connectors

VIP uses two dual row 0.1” center connectors — Connector A and Connector B. Connector A is a 26-pin connector, which is the same as the standard Feature Connector. Connector B is a 14-pin connector consisting of the power pins, ground, VRST#, and I2S. On the master side, Connector A is male, and Connector B is female. This applies to either the graphics adapter card or the motherboard. Slave modules will have the opposite mating connectors. Connector B on the slave side must be shrouded to prevent the danger of wrong insertion. Connector A can be configured as a standard Feature Connector, VIP, or Connector A (video) of VMI 1.4. On power up, the graphics chip (master) is configured in the standard feature connector mode. All VIP slaves must be disabled and tri-stated on power up.

## VIP Module Mechanical Specification



## VII. Hardware Information

VIP CONNECTOR A					
(26 Pin Dual Row Header, 0.100 in. centers)					
Standard Feature Connector		VIP Mode	Standard Feature Connector		VIP Mode
Pin #	Signal Name	Signal Name	Pin #	Signal Name	Signal Name
1	Ground	Ground	2	P0	VID [0]
3	Ground	Ground	4	P1	VID [1]
5	Ground	Ground	6	P2	VID [2]
7	EVIDEO #	HAD [1]	8	P3	VID [3]
9	ESYNC #	HAD [0]	10	P4	VID [4]
11	EDCLK #	HCTL	12	P5	VID [5]
13	N/C	SCL	14	P6	VID [6]
15	Ground	Ground	16	P7	VID [7]
17	Ground	Ground	18	DCLK	PIXCLK
19	Ground	Ground	20	BLANK #	VIPCLK
21	Ground	Ground	22	HSYNC	N/C
23	N/C	VIRQ #	24	VSYNC	N/C
25	N/C	SDA	26	Ground	Ground

VIP CONNECTOR B					
(14 Pin Dual Row Header, 0.100 in. centers)					
Standard Feature Connector		VIP Mode	Standard Feature Connector		VIP Mode
Pin #	Signal Name	Signal Name	Pin #	Signal Name	Signal Name
1	-	+3.3V	2	-	+3.3V
3	-	+3.3V	4	-	+3.3V
5	-	Ground	6	-	Ground
7	-	+5V	8	-	+5V
9	-	+5V	10	-	VRST #
11	-	SCLK	12	-	Ground
13	-	LRCLK	14	-	PCMDATA

# VIII. Troubleshooting

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## *Description*

*After installing the driver, Windows 95 doesn't prompt me to restart and the driver still doesn't work after I restart my computer.*

## *Recommended Action*

You may have installed similar drivers before. Try the following steps to install:

1. Right-click **My Computer** on the desktop.
2. Select **Properties**. The **System Properties** dialog box appears.
3. Click the **Device Manager** tab. Be sure that **View devices by type** is selected.
4. Double-click **Display adapters**. If **Display adapters** does not appear, jump to step 8 and continue.
5. The name of your card will be listed in the box. Double-click it.
6. The properties box of your card appears. Click the **Driver** tab.
7. Click **Change Driver...** and follow the installation steps.
8. Click **Other devices**. Your card should be listed.
9. Click the name of your card to bring up the properties box of your card. Select the **Driver** tab.
10. Click **Change Driver...** and follow the installation steps.

*After installation and restarting, Windows 95 informs me that the display setting is still incorrect.*

There may be a conflict between a previous and the current display drivers. This is caused by the incomplete removal of the previous display driver. Try the following steps to remove it:

1. Right-click **My Computer** on the desktop.
2. Select **Properties**. The **System Properties** dialog box appears.
3. Click the **Device Manager** tab. Be sure that **View devices by type** is selected.
4. Double-click **Display adapters**.
5. You will find two (or more) conflicting adapters.
6. Disable all previous adapters by selecting them and clicking **Remove**.
7. Close Device Manager and restart Windows 95.
8. Your display driver should work correctly this time.

*My monitor is not capable of high resolution or refresh rate.*

It depends on the display characteristics of your monitor. Consult your monitor documentation for the proper configuration.